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IS 495.03: Fundamentals of Network Administration

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COURSE SYLLABUS

IS 495

Fundamentals of Network Administration

Instructor:

Ryan Wright, GBB 338, 243-6620, ryan.wright@business.umt.edu

Meeting Place:

GBB 206

Course Description:

This current topics course will focus on the design, installation, configuration, and operation of local area networks. This course provides students with the knowledge and skills necessary to install and configure a stand-alone and client computers that are part of a workgroup or domain. We will also discuss alternate local area network methodologies including Microsoft Windows 2000, Novell NetWare, UNIX, Windows NT, and Windows 98. This course will utilize the networking lab in GBB 206. Every class will include a lecture or discussion on network topics along with a hands-on lab demonstrating the concepts.

Credits:

This three credit course can be used to meet the IS option degree requirements.

Textbook:

Mastering Windows 2000 Server by Mark Minasi, Sybex, ISBN: 0-7821-2774-6

Course Objectives:

- To expose students to introductory networking concepts in the information technology industry.
- To expose students to the impact of network technology on a business operation.
- To give students hands-on experience installing, configuring and operating computer hardware and software in a network environment.
- To allow students to implement information systems theories and practices in a lab environment that simulates real business scenarios.
- To enable students to develop network plans and implement and manage those plans in a laboratory setting.
- To expose students to computer hardware concepts (hard drives, RAM, CD-ROM).

Course's Relationships to School of Business' Shared Values

- **Lifelong learning skills:** students learn that network and information technology are ever-changing and it is necessary to stay current.
- **Workplace knowledge and skills:** the course covers important networking and telecommunications concepts that link workstations in networks.
- **Integration of technology:** the entire course integrates networking hardware and software with information needs of organizations.
- **Business community connection:** guest speakers from the community and elsewhere on campus assist students' understanding of application of telecommunications technology.

Prerequisites:

This course requires students to have a basic knowledge of computers and networks that can come from courses offered in the Computer Science Department, Information Systems Department, or through work experience.

Grading:

Attendance is required at all sessions. Student performance will be based on a combination of projects, presentations, tests, and class participation.

Course Topics:

- Introduction to Server Hardware
- Introduction to Network Concepts
- Discuss alternative network options such as peer to peer and server-based networks
- Design and configure a domain environment.
- Connect clients to a network.
- Introduce the concepts involved with accessing and administering data.
- Introduction to network security concepts
- Design and implement disaster protection.